



SEQUENCE LISTING

<110> ISHIWATA, TETSUYOSHI  
SAKURADA, MIKIKO  
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NAKAGAWA, SATOSHI  
NISHI, TATSUNARI  
KUGA, TETSURO  
SAWADA, SHIGEMASA  
TAKEI, MASAMI  
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<141> 2000-12-07

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PAGE 10 OF 10

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aagttcaaga ccaacctggt caacattgta agaccctgtc tctacaaaaa aaaaaaaagtt 3339  
aaaaattagc tgggtgcggt ggcacatgcc tgtagttcca gctactctgg aggctaaggt 3399  
gggaggattg ctagagccac ggtgttgaa gctgcaatga gctgtgacca caccactgcg 3459  
ctccagcgtg ggcaacagag ttagaccctg tttctaaaag aaagaaagaa aaaaggcgt 3519  
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aagtggagtt tcacaattat ctatagttga tcgaactaca atagcaaaca tgtgtccgga 3939  
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ctagttccct gtgacacatt gaaagcaatt taaaggaatt attcaaacca ttgatcctga 4239  
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ttaatggagt cagcccttaa acatattcac agcagtcccc ttct 4343

<211> 155  
<212> DNA  
<213> *Homo sapiens*

<400> 8  
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cgcctcctta gtcactttc ctataccat ctgagaccat tttacaattt agaaaagaca 120

aataactgg tgggttactt gatagtataa taacc 155

<210> 9  
<211> 278  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> unsure  
<222> (29), (32), (35)  
<223> A or G or C or T

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qqqqaqaga cattaaatta tcctgatact accattgact tgtctcacct tcaaccccaa 120

aqqtccatcc agaaattggc ttcaaaaagag gaatcttcta attcttagtga cagtaaatca 180

caqagccgga gacatttgtc agccaaggaa agaagggaaa tgaaaaagaa aaaacttcca 240

aqtqactcaq gagatttaga agcgtagag ggaaagga 278

<210> 10  
<211> 135  
<212> DNA  
<213> Homo sapiens

TOEPOLE

<400> 10  
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agcaataata astaaatcg ttttataccca gcacagagat tagacaata aaccaaggga 120  
  
ctggactaaa taagc 135  
  
  
<210> 11  
<211> 197  
<212> DNA  
<213> Homo sapiens  
  
<400> 11  
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ggaatttttgc gttgtgggtc ttttatcact agaaaaat atatatttgt gctgaagata 120  
  
attttgagat aatttagacaa gacagtttag catttacaag aacaagtttgc gcaagtgaag 180  
  
aatctattta tatgact 197  
  
  
<210> 12  
<211> 137  
<212> DNA  
<213> Homo sapiens  
  
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aagtggaaatc tttccttgc gtcttccaag ctaaaacaat tctctggaaa gatcacctct 120  
  
gttcagtcct ggtctct 137

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<210> 13  
<211> 274  
<212> DNA  
<213> Homo sapiens

<400> 13  
cgtttacaga ttctcttgcg gctggcggtg gaactacaaa gggatcggtg cctatatcac 60  
  
aataccaaac ttgataataa tctagattct gtgttgtcgc ttatagacca tgttttagt 120  
  
aggtaagagg aaaacttcct atattctgaa acagcctaac attttacaaa atttttagtt 180  
  
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cacgagtaaa gctggacta tgaaaattga aaat 274

<210> 14  
<211> 171  
<212> DNA  
<213> Homo sapiens

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<221> unsure  
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<223> A or G or C or T

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cgagtcacct angttcttac aaaggaagcg agaaaattgc ttttggggccatgccct 120  
  
tttgcacagg ttccctaaatgtc tagtcgccc aattttttta atggcctaaa g 171

<210> 15  
<211> 161  
<212> DNA

2000-1999-1998-1997-1996-1995-1994-1993-1992-1991-1990-1989-1988-1987-1986-1985-1984-1983-1982-1981-1980-1979-1978-1977-1976-1975-1974-1973-1972-1971-1970

<213> Homo sapiens

<400> 15

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aattccttagc ccaagaagaa tataatgtta aaactggtta tgtaattttt gtgcctctcc 120

tttttaatgc agtatttagt tcagatgttg gcgatttttc a 161

<210> 16

<211> 323

<212> DNA

<213> Homo sapiens

<400> 16

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gaagggttaga gttcagtgaa tgttacctag aaacagcccc ggctgtggaa tactttattc 120

ttagccctat atttggggtt tggatgtcca ctgtgctggc tcccagagat agtaagggga 180

tgagagtatt gtttacatct cctgaccac atacttaaga tccagatgaa caagacagtt 240

ttcactcctg cttggtagaa cctatttgyk shaggaaaca gytccctaaag aatggttcta 300

gccagaccct gtcgtyacca gaa 323

<210> 17

<211> 138

<212> DNA

<213> Homo sapiens

<400> 17

agtatgacaa atagttctg cctgattggc gagatttggg atgggcccccc actttgtttc 60

DNA sequence analysis tool

|   |     |
|---|-----|
| tctttctgca taaaaatttc aacatTTTA caaaatttcc aaaaacttct cctcagtctg  | 120 |
| tacatcttg ttaatcag  | 138 |
|   |     |
| <210> 18  |     |
| <211> 135   |     |
| <212> DNA   |     |
| <213> Homo sapiens  |     |
|   |     |
| <400> 18  |     |
| tgatccccac aatttcttgt gattggtag gaaCTATAAA tgactccat ccaAGCTTAT   | 60  |
| accagaaaaa aggagcacat ttTCTACAAA ttATATCATT ttTAATCCAT taccacatta | 120 |
| ttttagggga actac  | 135 |
|   |     |
| <210> 19  |     |
| <211> 219   |     |
| <212> DNA   |     |
| <213> Homo sapiens  |     |
|   |     |
| <400> 19  |     |
| ctgagaggag ccatgtatac aaaccACTT ttCTAACATG gtCTTTATTa aactttGAAT  | 60  |
| ataagtacac ctgctcgaaG tgTTcatcta tattATTTAA gaacaAGCAA ctgtAAAACA | 120 |
| gtAAAATCAC AAAAGGTAAG ttGTTGGAAg ACAACAAAAA AGAATTACTA tatCTGATCC | 180 |
| tgcgtgttta tttagaaatc tgttaatagg cctacagct                        | 219 |
|   |     |
| <210> 20  |     |
| <211> 191   |     |
| <212> DNA   |     |
| <213> Homo sapiens  |     |

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ccactattta gcacacaggt gtgatctgag gtgaggact acctttcga tcttggtttt 180  
  
ctcatttatt t 191  
  
  
<210> 21  
<211> 148  
<212> DNA  
<213> Homo sapiens  
  
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ctccccagaa caccaaagca gatgatgagt ctagctctac ccagccttcc tccccacgaa 120  
  
tccagatcat agtaagaaac tctggct 148  
  
  
<210> 22  
<211> 306  
<212> DNA  
<213> Homo sapiens  
  
<400> 22  
ccaccaccag aaatgaacaa aaagcatttt acctaaaaat acaccagcaa aatgtactca 60  
  
gcttcaatca caaatacgac tgcttaaaac cgcatggaaatt tcctcaacac tcagccttta 120  
  
tcactcagct ggatttttc cttcaacaat cactactcca agcattgggg aacacaactt 180  
  
ttaatcatac tccagtcgtt tcacaatgca ttctaatacg agcgggatca gaacagttact 240

Y02020 "S96020" 00000000000000000000000000000000

|   |     |
|---|-----|
| gcatttactt gccaacagaa cagacagacc tgaagtcaag acaactgcat tctctgtcaa | 300 |
| gtctgt  | 306 |
| <br>  |     |
| <210> 23  |     |
| <211> 357   |     |
| <212> DNA   |     |
| <213> Homo sapiens  |     |
| <br>  |     |
| <400> 23  |     |
| gttagcatttt ggcagaacca ttgttaatta aaggactty tggaccgcaa cyttaatgta | 60  |
| <br>  |     |
| ccagattatt gagcrgccca atgaatgctt catttcattt gttaagggtg ctgctttgat | 120 |
| <br>  |     |
| tttttttca attctttgta ctatTTTta tttttggag aggacatcc ccaaatttgg     | 180 |
| <br>  |     |
| atgaggtatt tggtgataaa taattcatca atttccacaa tgcagacaaa aatgtctgcc | 240 |
| <br>  |     |
| cagagtggaa aaataaaaca agggggagaa gagtttgagt aacggagaag ttctgtggaa | 300 |
| <br>  |     |
| tcctagtgac aaaagttgag aaactacctt taaataagac agttaggtaa caaatgt    | 357 |
| <br>  |     |
| <210> 24  |     |
| <211> 219   |     |
| <212> DNA   |     |
| <213> Homo sapiens  |     |
| <br>  |     |
| <400> 24  |     |
| tggaaatagcc aggagaattc tggaaaagta gaataatgag gtagggcttc cttcgctat | 60  |
| <br>  |     |
| tttgaagtgc agattacact atgtaaaacc attaggaact ggcacgtgaa tagacagatc | 120 |

aatagttaat agctgtatta gccagaaaaat ggtgtaagga caacaggcta actaaccctg 180

tcacttggta tgctaaaatt aagtcttagat agagtcctc 219

<210> 25  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 25  
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tccttacact ggtgttcccc aaagtgaggt gaattgccag ccactggag tcagggccag 120

ttacataaga cattctcggt aagccccctt tgggtatccc aaataaggac tggggtgtgg 180

ttatgtgtag tccattatta acaactaaac gaacaaacct agtgaattgc aataaattca 240

caccaacaga a 251

<210> 26  
<211> 233  
<212> DNA  
<213> Homo sapiens

<400> 26  
gttgaagag tccttggaaag gcttttagac caaaccctc tgcatgctca arccttgggt 60

acaggatttc taagaagtgg aacagtctcc aggggtgtgg arctcatcgc tcaaggcagg 120

ttatcttatac tgaataattt tgtctgttga ctattggat agtttcctt cagatgagct 180

gaaattttct ccatagcttc ctctattaaa cccaattcca cttctcaggg tca 233

<210> 27  
<211> 176  
<212> DNA  
<213> Homo sapiens

<400> 27  
caaaaagcgct gaagttaagc attaatacgc cagattcatg atttatgatc agtatccaaa 60

actccaacta caaacaatgc aaagtagtgc tcctcagtat tattttgca attgttagta 120

atgttaagca tcaaggaaaa taaaacacat cattgcacat tacagccgca aaaaac 176

<210> 28  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 28  
agagagtaaa gcaagctatt ttgacagcaa cctaataaca gctgtcttct tccacttctt 60

ggctaactca tccccagat agccttctt tctcttatca attccctgtt gcaacaataa 120

taaatgccac acctgatgga gtcatttaggc acttccttag tgacaagtgc ctaggacaga 180

ggagaaaaaca aagaaacact gacaaccact gaaaactgac atatcaggcc aggcatgtca 240

c 241

<210> 29  
<211> 217  
<212> DNA  
<213> Homo sapiens

<400> 29  
gctggagagg tggtgatgtt gctgaataat tgcttttaa agctggaggg gacttccaag 60

|  |     |
|--|-----|
| agtctctcat ttaagaaraaa aaattaaaga cataatttgt aacggtttg actgctgcag  | 120 |
| aggcaacact ttgctcacaa tcctacagat ctacttcacc tgtaactaca atttcctga   | 180 |
| agacatagaa gaaaaatcaa ttgttctaattccatatg                           | 217 |
| <210> 30   |     |
| <211> 233  |     |
| <212> DNA  |     |
| <213> Homo sapiens   |     |
| <400> 30   |     |
| aatcttagca taatgcttcc tggaaattc taaaattgtatccatttctgc cggttacaaa   | 60  |
| cacacacgaa gttcctagtt cactggact tcctgatttg ttcttttagc ttgctccttc   | 120 |
| tcacctagaa gctctgttta tttctgagca accctggggc ttgtctcata ggacaggatt  | 180 |
| tatTTATCTC atcaaggctg agtgtgcctt aggaagtcat aaacataaaaa aga        | 233 |
| <210> 31   |     |
| <211> 228  |     |
| <212> DNA  |     |
| <213> Homo sapiens   |     |
| <400> 31   |     |
| tatagacagg gtagggacga tttagccctc gacaactttt cacaatata cacacgttta   | 60  |
| actacctctc aggtcatgtat aaagaccggc cggcgagaaa cactgtaatc ccagctactc | 120 |
| gggagcctga ggcatgagaa tcacttgaac ctgggaggtg gaggttgcca tgagccgaga  | 180 |
| tcacgccatt gcactacagc cttggcgaca agagtgaaac tccatctg               | 228 |

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<210> 32  
<211> 298  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (44)  
<223> A or G or C or T

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atcgctttt ctgaaatagg tatcccttga tgtcgactat ttgatttcag ccagtcgtt 120  
  
ctctctggca gtgctccctg caaatgtgtc ctttcaagaa aacaaaacct gcaagtggct 180  
  
tgtaatgtac catgaccta tcatgtgaag gacaaatggc tcttgcgtt attagatagc 240  
  
agatgaactg atgaactgaa ttcttggtct gaagcttga taaggtcaga tgtcttg 298

<210> 33  
<211> 291  
<212> DNA  
<213> Homo sapiens

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aaaacaagtt taaaactcaa aagaggatta ttctcaagtt atactacagt gaaaaaacat 180  
  
ggaaaaaacac aaaaaggaca ggcaataagg cacaggcata catacaaggc aaattgtAAC 240

acaatattta cttgcaaaag agcccacaga gacatgtcaa tgaagtcata g

291

<210> 34

<211> 230

<212> PRT

<213> Homo sapiens

<400> 34

Met Glu Asp Gly Phe Leu Asp Asp Gly Arg Gly Asp Gln Pro Leu His  
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Ser Gly Leu Gly Ser Pro His Cys Phe Ser His Gln Asn Gly Glu Arg  
20 25 30

Val Glu Arg Tyr Ser Arg Lys Val Phe Val Gly Gly Leu Pro Pro Asp  
35 40 45

Ile Asp Glu Asp Glu Ile Thr Ala Ser Phe Arg Arg Phe Gly Pro Leu  
50 55 60

Ile Val Asp Trp Pro His Lys Ala Glu Ser Lys Ser Tyr Phe Pro Pro  
65 70 75 80

Lys Gly Tyr Ala Phe Leu Leu Phe Gln Asp Glu Ser Ser Val Gln Ala  
85 90 95

Leu Ile Asp Ala Cys Ile Glu Glu Asp Gly Lys Leu Tyr Leu Cys Val  
100 105 110

Ser Ser Pro Thr Ile Lys Asp Lys Pro Val Gln Ile Arg Pro Trp Asn  
115 120 125

Leu Ser Asp Ser Asp Phe Val Met Asp Gly Ser Gln Pro Leu Asp Pro  
130 135 140

Arg Lys Thr Ile Phe Val Gly Gly Val Pro Arg Pro Leu Arg Ala Val  
145 150 155 160

Glu Leu Ala Met Val Met Asp Arg Leu Tyr Gly Gly Val Cys Tyr Ala  
165 170 175

Gly Ile Asp Thr Asp Pro Glu Leu Lys Tyr Pro Lys Gly Ala Gly Arg  
180 185 190

Val Ala Phe Ser Asn Gln Gln Ser Tyr Ile Ala Ala Ile Ser Ala Arg

□ □ □ □ □ □ □ □ □ □

195

200

205

Phe Val Gln Leu Gln His Gly Glu Ile Asp Lys Arg Val Ser Leu Ile  
210 215 220

Leu His Phe Gly Lys Phe  
225 230

<210> 35  
<211> 143  
<212> PRT  
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<400> 35  
Met Gly Ser Asp Lys Arg Val Ser Arg Thr Glu Arg Ser Gly Arg Tyr  
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Gly Ser Ile Ile Asp Arg Asp Arg Asp Glu Arg Glu Ser Arg Ser  
20 25 30

Arg Arg Arg Asp Ser Asp Tyr Lys Arg Ser Ser Asp Asp Arg Arg Gly  
35 40 45

Asp Arg Tyr Asp Asp Tyr Arg Asp Tyr Asp Ser Pro Glu Arg Glu Arg  
50 55 60

Glu Arg Arg Asn Ser Asp Arg Ser Glu Asp Gly Tyr His Ser Asp Gly  
65 70 75 80

Asp Tyr Gly Glu His Asp Tyr Arg His Asp Ile Ser Asp Glu Arg Glu  
85 90 95

Ser Lys Thr Ile Met Leu Arg Gly Leu Pro Ile Thr Ile Thr Glu Ser  
100 105 110

Asp Ile Arg Glu Met Met Glu Ser Phe Glu Gly Pro Gln Pro Ala Asp  
115 120 125

Val Arg Leu Met Lys Arg Lys Thr Gly Glu Ser Leu Leu Ser Ser  
130 135 140

<210> 36  
<211> 104  
<212> PRT

<213> Homo sapiens

<400> 36  
Met Pro His Met Leu Ser Gln Leu Ile Ala Gly Gly Val Ser Thr Ser  
1 5 10 15  
  
Cys Val Thr Ala Leu Gly Glu Glu Thr Gly Ala Trp Phe Pro Val Tyr  
20 25 30  
  
Leu Ser His Ala Ser Ser Pro Phe Ala Asp Leu Val Phe Cys Pro Phe  
35 40 45  
  
Ala Glu Ile Asn His Ser Gln Glu Tyr Asp Asn Met Arg Gly Pro Val  
50 55 60  
  
Ser Pro Pro Asn Lys Gln Phe Asn Leu Gly Val Ile Phe Gly Ile Pro  
65 70 75 80  
  
Asn Asn Cys Arg Phe Pro Thr Asp Asn Lys Ile Thr Glu Lys Gln Leu  
85 90 95  
  
Leu Gly Asn Val Leu Asn Tyr Pro  
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<210> 37

<211> 133

<212> PRT

<213> Homo sapiens

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Tyr Pro Thr Ala Pro Ile Leu Lys Trp Thr His Thr Val Ser Cys Ser  
20 25 30  
  
Trp Cys Arg Ser Val Leu Arg Glu Val Val Gly Asn Val Ser Leu Ser  
35 40 45  
  
Glu Asn Phe Thr Ile Ser Ala Phe Cys Pro Glu Leu Thr Pro Phe Pro  
50 55 60  
  
Asp Gln Gly Thr Ser Thr Met Ile Ser Phe Leu Glu Lys Phe Asn Lys  
65 70 75 80

Ser Lys Arg Glu Arg Leu Glu Leu Met Leu His Phe Tyr Ser Val Leu  
85 90 95

Ser Leu Glu Pro Ala Val Ala Glu His Trp Ser Gly Glu Phe Glu Lys  
100 105 110

Trp Lys Val Gly Phe Phe His Pro Leu Lys Arg Glu Asp Gly Phe Phe  
115 120 125

Thr Arg Thr Asp Ile  
130

<210> 38

<211> 133

<212> PRT

<213> Homo sapiens

<400> 38

Met Asn His Pro Trp His Val Cys Phe Leu Phe Lys Val Leu Arg Tyr  
1 5 10 15

Tyr Pro Thr Ala Pro Ile Leu Lys Trp Thr His Thr Val Ser Cys Ser  
20 25 30

Trp Cys Arg Ser Val Leu Arg Glu Val Val Gly Asn Val Ser Leu Ser  
35 40 45

Glu Asn Phe Thr Ile Ser Ala Phe Cys Pro Glu Leu Thr Pro Phe Pro  
50 55 60

Asp Gln Gly Thr Ser Thr Met Ile Ser Phe Leu Glu Lys Phe Asn Lys  
65 70 75 80

Ser Lys Arg Glu Arg Leu Glu Leu Met Leu His Phe Tyr Ser Val Leu  
85 90 95

Ser Leu Glu Pro Ala Phe Ala Glu His Trp Ser Gly Glu Phe Glu Lys  
100 105 110

Trp Lys Val Gly Phe Phe His Pro Leu Lys Arg Glu Asp Gly Phe Phe  
115 120 125

Thr Arg Thr Asp Ile  
130

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<210> 39  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 39  
Met Asp Ala Val Ala Val Tyr His Gly Lys Ile Ser Arg Glu Thr Gly  
1 5 10 15

Glu Lys Leu Leu Leu Ala Thr Gly Leu Asp Gly Ser Tyr Leu Leu Arg  
20 25 30

Asp Ser Glu Ser Val Pro Gly Val Tyr Cys Leu Cys Val Leu Tyr His  
35 40 45

Gly Tyr Ile Tyr Thr Tyr Arg Val Ser Gln Thr Glu Thr Gly Ser Trp  
50 55 60

Ser Ala Glu Thr Ala Pro Gly Val His Lys Arg Tyr Phe Arg Lys Ile  
65 70 75 80

Lys Asn Leu Ile Ser Ala Phe Gln Lys Pro Asp Gln Gly Ile Val Ile  
85 90 95

Pro Leu Gln Tyr Pro Val Glu Lys Lys Ser Ser Ala Arg Ser Thr Gln  
100 105 110

Gly Thr Thr Gly Ile Arg Glu Asp Pro Asp Val Cys Leu Lys Ala Pro  
115 120 125

<210> 40  
<211> 343  
<212> PRT  
<213> Homo sapiens

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Met Asp Ala Pro Lys Ala Gly Tyr Ala Phe Glu Tyr Leu Ile Glu Thr  
1 5 10 15

Leu Asn Asp Ser Ser His Lys Lys Phe Phe Asp Val Ser Lys Leu Gly  
20 25 30

Thr Lys Tyr Asp Val Leu Pro Tyr Ser Ile Arg Val Leu Leu Glu Ala  
35 40 45

Ala Val Arg Asn Cys Asp Gly Phe Leu Met Lys Lys Glu Asp Val Met  
50 55 60

Asn Ile Leu Asp Trp Lys Thr Lys Gln Ser Asn Val Glu Val Pro Phe  
65 70 75 80

Phe Pro Ala Arg Val Leu Leu Gln Asp Phe Thr Gly Ile Pro Ala Met  
85 90 95

Val Asp Phe Ala Ala Met Arg Glu Ala Val Lys Thr Leu Gly Gly Asp  
100 105 110

Pro Glu Lys Val His Pro Ala Cys Pro Thr Asp Leu Thr Val Asp His  
115 120 125

Ser Leu Gln Ile Asp Phe Ser Lys Cys Ala Ile Gln Asn Ala Pro Asn  
130 135 140

Pro Gly Gly Asp Leu Gln Lys Ala Gly Lys Leu Ser Pro Leu Lys  
145 150 155 160

Val Gln Pro Lys Lys Leu Pro Cys Arg Gly Gln Thr Thr Cys Arg Gly  
165 170 175

Ser Cys Asp Ser Gly Glu Leu Gly Arg Asn Ser Gly Thr Phe Ser Ser  
180 185 190

Gln Ile Glu Asn Thr Pro Ile Leu Cys Pro Phe His Leu Gln Pro Val  
195 200 205

Pro Glu Pro Glu Thr Val Leu Lys Asn Gln Glu Val Glu Phe Gly Arg  
210 215 220

Asn Arg Glu Arg Leu Gln Phe Phe Lys Trp Ser Ser Arg Val Leu Lys  
225 230 235 240

Asn Val Ala Val Ile Pro Pro Gly Thr Gly Met Ala His Gln Ile Asn  
245 250 255

Leu Glu Tyr Leu Ser Arg Val Val Phe Glu Glu Lys Asp Leu Leu Phe  
260 265 270

Pro Asp Ser Val Val Gly Thr Asp Ser His Ile Thr Met Val Asn Gly  
275 280 285

Leu Gly Ile Leu Gly Trp Gly Val Gly Gly Ile Glu Thr Glu Ala Val

290

295

300

Met Leu Gly Leu Pro Val Ser Leu Thr Leu Pro Glu Val Val Gly Cys  
305 310 315 320

Glu Leu Thr Gly Ser Ser Asn Pro Phe Val Thr Ser Ile Asp Val Val  
325 330 335

Leu Gly Ile Thr Lys Val Ser  
340

<210> 41

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (53), (54), (55), (56), (57), (58)

<223> A or G or C or T

<400> 41

tcatgaagtg aagccaaactg ttttagactag aatgttatga gattaaaccc acnnnnnntt 60

attcatagac ataaaccctc attttaatta gtggatctgg attttgtca tatgtggaat 120

cataatttaa acaaaaatcaa ctaagatgtat ccaagttcca cacaactgca cttcaatatt 180

caagtcggtg tgaagatgcc tgactactgc gtcacaagat tctgagctgt cgtaaaaagc 240

ctggctcggtg gtttctatTT atagtgtaca catgttggt tataatcaca aacctggaac 300

tctgt 305

<210> 42

<211> 256

<212> DNA

<213> Homo sapiens

DNA  
= DNA  
TGA  
= TGA

<400> 42  
gaaaccacgg cttaaacaccta gagacagcat tcagatatacg acggatact tgtgttagtc 60  
  
agttccttta taacaggtga atctctctcc cactgcttca acactgcgtg acaaagccaa 120  
  
ttgggaagca gctttacaaa tgtgacttga cttggggatc ttcttgatac tttgccatgg 180  
  
caaggaacaa gccgcctgaa ctaaatgccca ctccatttga ttccacgctt aaagtaacca 240  
  
tgcaaccgac tatagt 256

<210> 43  
<211> 244  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (227), (237)  
<223> A or G or C or T

<400> 43  
tactcttcaa ccatgatttt tctctgatgg cctgtgtgaa cagattaatg gtgtccatct 60  
  
aattccttcc ccactggggg aaagcaaatc atcaggccca ttgaaaaac tgctttgg 120  
  
tgagcttcct gccttaaatc atacccacag tgaatggcgt cccttatca ccgctaata 180  
  
ctctgacatc tctctccact cacatgtgag cctcctcagc tctcgaaaaa caagtcngtc 240  
  
tcgg 244

<210> 44  
<211> 258

<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (39), (40), (41)  
<223> A or G or C or T

<400> 44 tctcagaaaa ctccagatca aatgagatga gtatggtnn naggctggc aattagagga 60

tactctccaa tggtgatgaa gggagatgtc tggggaaat ccagcaggat gttgatttag 120

tatgtacaca gtgagaggat actttagatag aacctagaat cttctctgaa tgtgacggc 180

cctcagagat aattgttaac agataagtgg atgattaaat acacttcctc cagtaggcta 240

gatgttaaga cgagatc 258

<210> 45  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 45 gggcttaata ttattcatag atcgag 26

<210> 46  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

F0000000000000000000000000000000

<400> 46  
gttattatac tatcaagtaa cccaac

26

<210> 47  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 47  
gtggatctgg attttgtca tatgt

25

<210> 48  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 48  
gtttgtgatt ataacccaac atgtg

25

<210> 49  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 49  
gaaggggaaag agacattaaa ttatc

25

<210> 50  
<211> 24  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 50

gcttctaaat ctcctgagtc actt

24

<210> 51

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 51

gacaatgagt aagaagaaaag aggg

24

<210> 52

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 52

gtccagtc ttggtttatt tgtc

24

<210> 53

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 53

ggtacccagt ttcaaattaa catgg

25

<210> 54  
<211> 25  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 54  
gattcttcaa ctgccaaact tgttc

25

<210> 55  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 55  
gctgatgctt ttcttatctga cttc

24

<210> 56  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 56  
gaccaggact gaacagaggt ga

22

<210> 57  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 57  
gcttata~~gac~~ catgttt~~gta~~ gtagg

25

<210> 58  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 58  
gtgaacaaat gctaaatcag acatg

25

<210> 59  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 59  
gccacgggtt tcccatatcg aa

22

<210> 60  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 60  
gactata~~actt~~ aggaac~~ctct~~ gcaa

24

DNA Sequence

<210> 61  
<211> 24  
<212> DNA  
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<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 61  
gttctgctc cagcagattg gtta

24

<210> 62  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 62  
gccaacatct gaactaaata ctgc

24

<210> 63  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
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<400> 63  
gttcagtgaa tgttacctag aaaca

25

<210> 64  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 64  
ggagtgaaaa ctgtcttgg catc

24

<210> 65  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
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<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 65  
gtatgacaaa tagttctgc ctgat

25

<210> 66  
<211> 25  
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<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 66  
gattaacaaa gatgtacaga ctgag

25

<210> 67  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 67  
gagacacgcat tcagatatacg acgg

24

<210> 68  
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<212> DNA  
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<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 68  
gcgttggaaatc aaatggaggta gc

22

<210> 69  
<211> 24  
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<400> 69  
gatggcctgt gtgaacagat taat

24

<210> 70  
<211> 24  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 70  
gagagagatg tcagagtcat tagc

24

<210> 71  
<211> 24  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 71

gatccccaca atttcttgtg attg

24

<210> 72  
<211> 25  
<212> DNA  
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<220>  
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<400> 72  
gttcccctaa aataatgtgg taatg

25

<210> 73  
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<220>  
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<400> 73  
gaggataactc tccaatggtg atg

23

<210> 74  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 74  
gtcttaacat ctagcctact ggag

24

<210> 75  
<211> 24  
<212> DNA

EQUUS 62(2) 26-30

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 75

gagaggagcc atgtatacaa acca

24

<210> 76

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 76

gcacgcagga tcagatatacg taattc

26

<210> 77

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 77

gctgaaacct aagctgaagg aagg

24

<210> 78

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 78

gtccctcacc tcagatcaca cc

22

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<210> 79  
<211> 24  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
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gctatctacc tggcagaaaa agag

24

<210> 80  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
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<400> 80  
gagtttctta ctatgatctg gattc

25

<210> 81  
<211> 25  
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<220>  
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<400> 81  
gcaaaatgta ctcagcttca atcac

25

<210> 82  
<211> 24  
<212> DNA  
<213> Artificial Sequence

DNA sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 82  
gtaaaatgcag tactgttctg atcc

24

<210> 83  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 83  
gaatgcttca ttctcattgt ttaagg

26

<210> 84  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 84  
gtcacttagga ttccacagaa cttc

24

<210> 85  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 85  
gaggttagggc ttcccttcgc ta

22

<210> 86  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 86  
gcataacaag tgacagggtt agtta

25

<210> 87  
<211> 22  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 87  
ggtgctcctt ctttacactg gt

22

<210> 88  
<211> 23  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 88  
gactacacat aaacccaccc cag

23

<210> 89  
<211> 24  
<212> DNA  
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<223> Description of Artificial Sequence:Synthetic DNA

<400> 89  
gggtacagga tttctaagaa gtgg

24

<210> 90  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 90  
ggagaaaatt tcagctcatc tgaag

25

<210> 91  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 91  
gctgaagtta agcattaata cgcc

24

<210> 92  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 92  
gcggctgtaa tgtgcaatga tgt

23

<210> 93  
<211> 24

DNA Sequence Database

<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 93  
gacagcaacc taataaacagc tgtc

24

<210> 94  
<211> 22  
<212> DNA  
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<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 94  
gtccttaggca cttgtcacta gg

22

<210> 95  
<211> 22  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 95  
gaggggactt ccaagagtct ct

22

<210> 96  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 96

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gtcttcagga aaattgtagt tacag

25

<210> 97  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 97  
gttacaaaca cacacgaagt tcct

24

<210> 98  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 98  
gacttcctaa ggcacactca gc

22

<210> 99  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic DNA

<400> 99  
gtttaactac ctctcaggc atga

24

<210> 100  
<211> 22  
<212> DNA

FOURTY-EIGHT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 100

gtcgccaagg ctgtagtgca at

22

<210> 101

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 101

gaaaatagta tcccttgcgt tcga

24

<210> 102

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 102

gaccaagaat tcagttcatc agtt

24

<210> 103

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

<400> 103

gaatgaacca gagccaggac ag

22

合成DNA

<210> 104  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 104  
gccttgtatg tatgcctgtg cc

22

<210> 105  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 105  
aagagtccac caggccatgg a

21

<210> 106  
<211> 23  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 106  
taccttgtgt acttcttagct gag

23

<210> 107  
<211> 17  
<212> DNA  
<213> Artificial Sequence

0 2 3 4 5 6 7 8 9 C O M P U T E R S

<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 107  
gtttttttt tttttta

17

<210> 108  
<211> 17  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 108  
gtttttttt ttttttg

17

<210> 109  
<211> 17  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 109  
gtttttttt ttttttc

17

<210> 110  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 110  
cagagtatg gatatcaa

18

<210> 111  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 111  
atgaaaagtgc cagtgtgccca tg

22

<210> 112  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 112  
cccatcacca tcttccagga gc

22

<210> 113  
<211> 26  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic DNA  
  
<400> 113  
ttcaccaccc tcttgatgtc atcata

26.

<210> 114  
<211> 15  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:Synthetic Peptide

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<400> 114  
Cys Pro Leu Lys Arg Glu Asp Gly Phe Phe Thr Arg Thr Asp Ile  
1 5 10 15

<210> 115  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (16)  
<223> AMIDATION, GluAmide

<400> 115  
Cys Ser Phe Leu Glu Lys Phe Asn Lys Ser Lys Arg Glu Arg Leu Xaa  
1 5 10 15

<210> 116  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (15)  
<223> AMIDATION, GlyAmide

<400> 116  
Cys Ala Glu His Trp Ser Gly Glu Phe Glu Lys Trp Lys Val Xaa  
1 5 10 15

<210> 117  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic Peptide

<400> 117  
Cys Glu Ile Asp Lys Arg Val Ser Leu Ile Leu His Phe Gly Lys Phe  
1 5 10 15

<210> 118  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic Peptide

<400> 118  
Cys Arg Leu Met Lys Arg Lys Thr Gly Glu Ser Leu Leu Ser Ser  
1 5 10 15

<210> 119  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic Peptide

<400> 119  
Cys Thr Ser Ile Asp Val Val Leu Gly Ile Thr Lys Val Ser  
1 5 10

<210> 120  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (16)  
<223> AMIDATION, LysAmide

<400> 120  
Cys Ser Ala Glu Thr Ala Pro Gly Val His Lys Arg Tyr Phe Arg Xaa  
1 5 10 15

<210> 121  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 121

Cys Lys Ile Thr Glu Lys Gln Leu Leu Gly Asn Val Leu Asn Tyr Pro  
1 5 10 15

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